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TI HYDROGEN STORAGE ALLOY AND HYDROGEN STORAGE ALLOY ELECTRODE
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AB PROBLEM TO BE SOLVED: To provide a hydrogen storage alloy electrode having
excellent cycle characteristics by improving a hydrogen storage alloy of
TiVNi type, having a body-centered cubic structure.
SOLUTION: This alloy is a hydrogen storage alloy which has a composition
represented by the formula, $\text{Ti}_{x-y-z}\text{V}_y\text{M}_z\text{Ni}_{1-x-y-z}$ (where M means at least one element selected from the group
consisting of Co, Fe, Cu, and Ag and $0.2 \leq x \leq 0.4$, $0.3 \leq y < 0.7$, $0.1 \leq z \leq 0.3$,
and $0.6 \leq x+y+z \leq 0.95$ are satisfied) and in which the essential component
of alloy phase has a body-centered cubic structure. Further, this hydrogen
storage alloy contains at least one element selected from the group
consisting of Cr, Mo, W, Al, Mn, Zn, Zr, Hf, Si, B, P, S, and rare earth
elements by $\leq 5 \text{ atom\%}$ per element based on the total content.
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